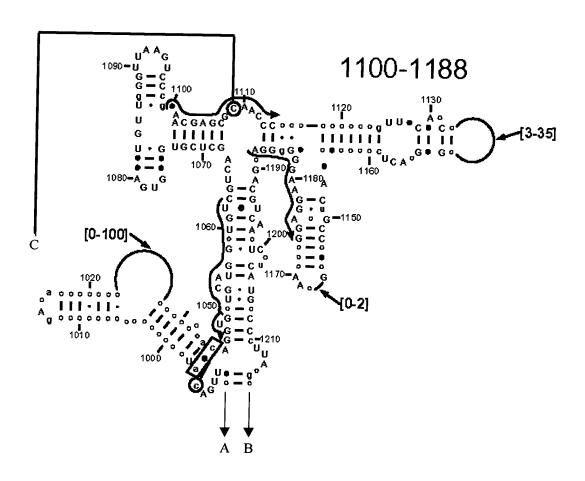
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Title: METHODS FOR RAPID IDENTIFICATION OF PATHOGENS IN

HUMANS AND ANIMALS Inventors: David J. Ecker et al.

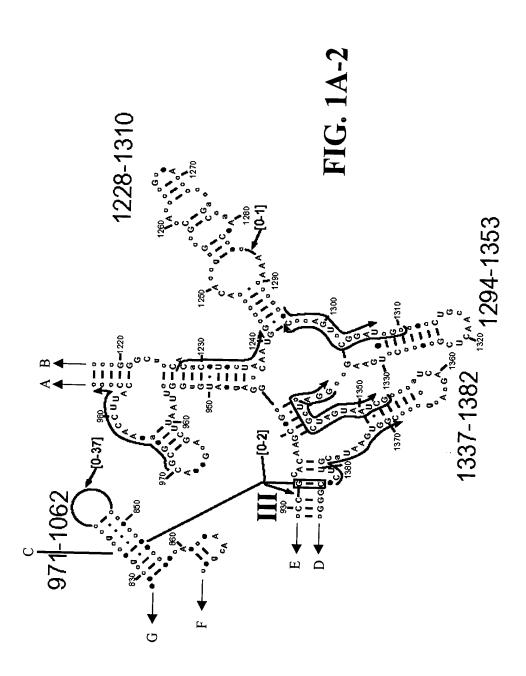
Sheet 1 of 38

# FIG. 1A-1



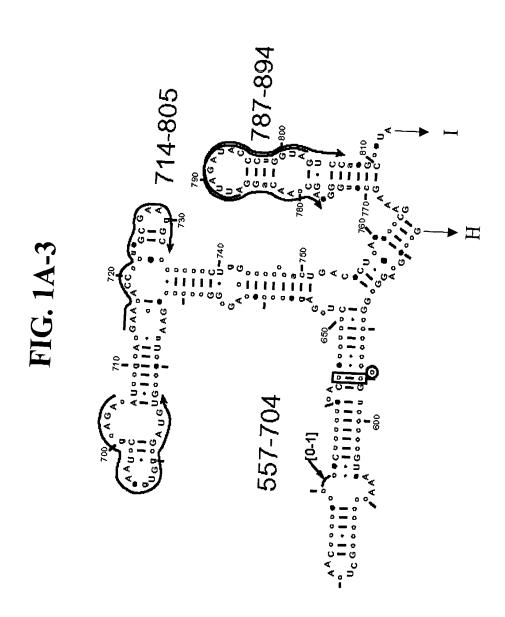
Inventors: David J. Ecker et al.

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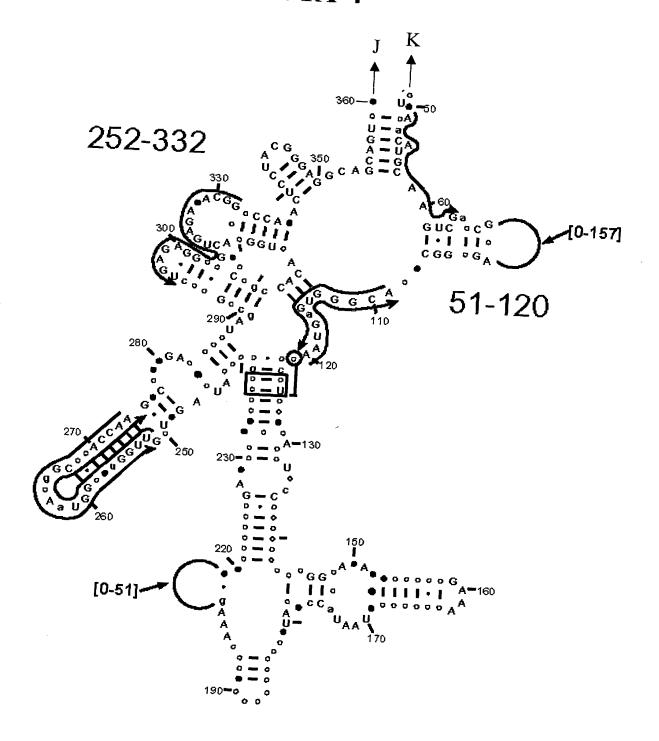


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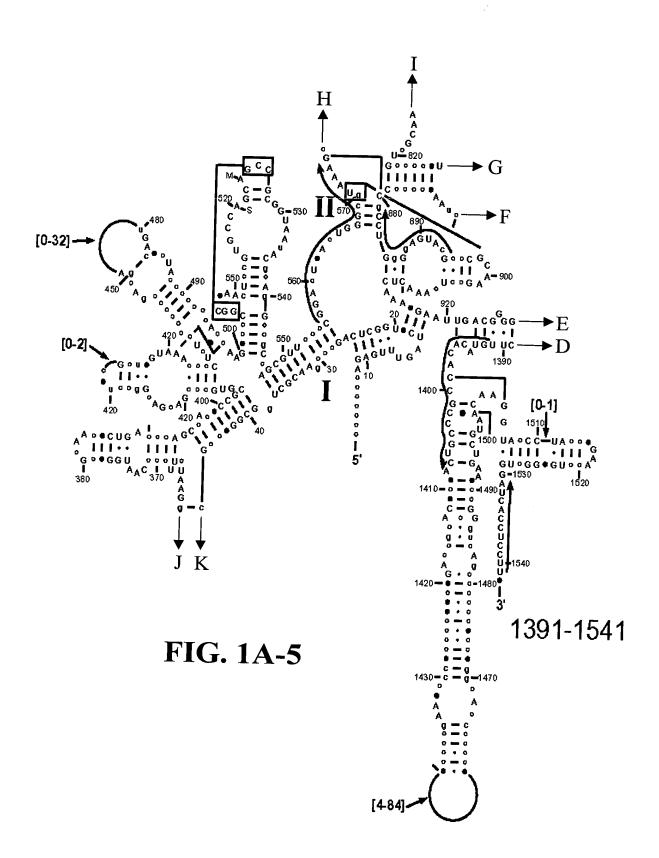
# FIG. 1A-4



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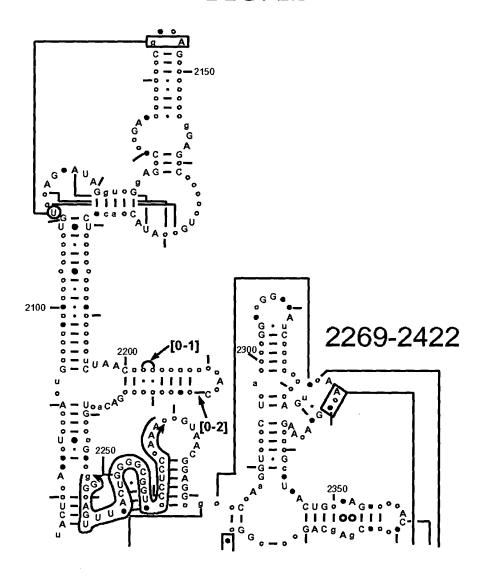
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FIG. 1B

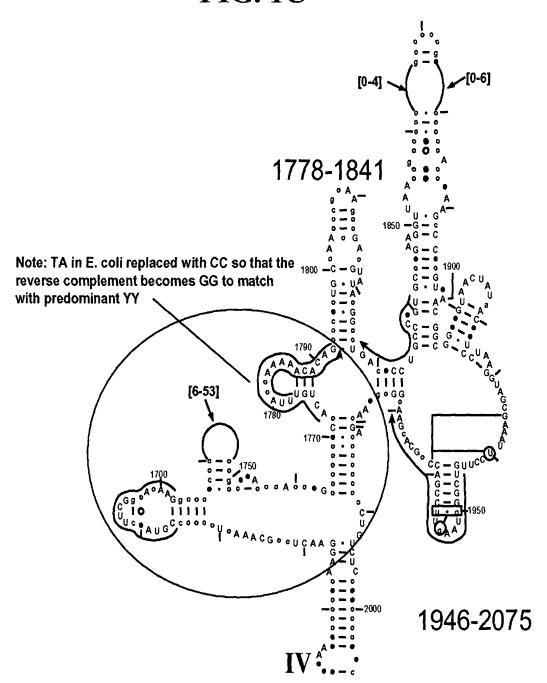


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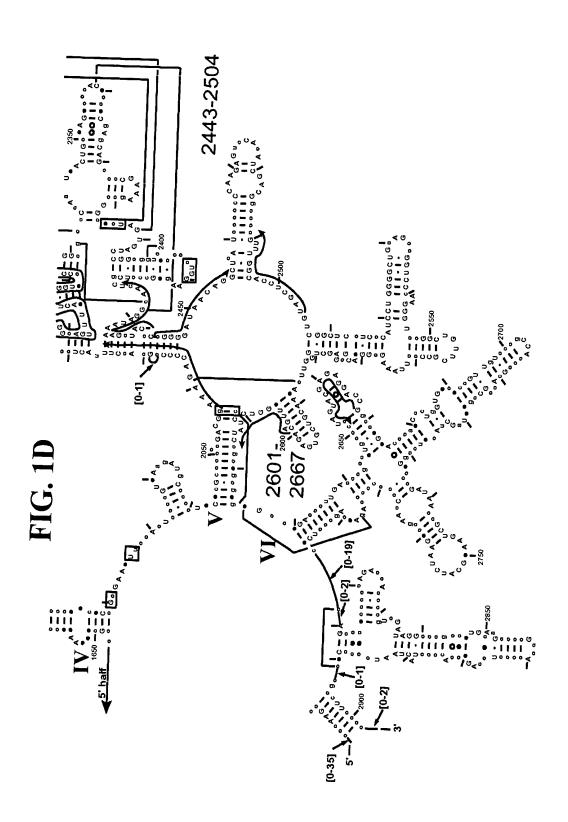
**HUMANS AND ANIMALS** Inventors: David J. Ecker et al.

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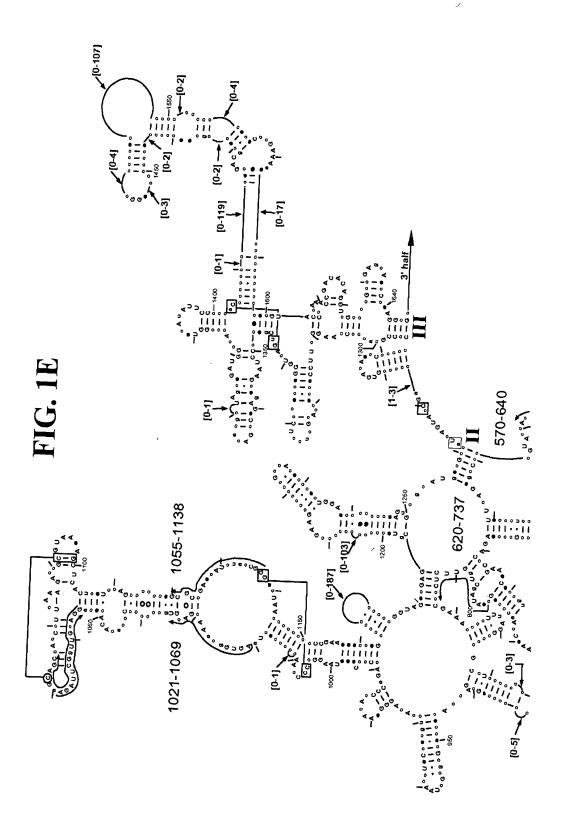
### FIG. 1C



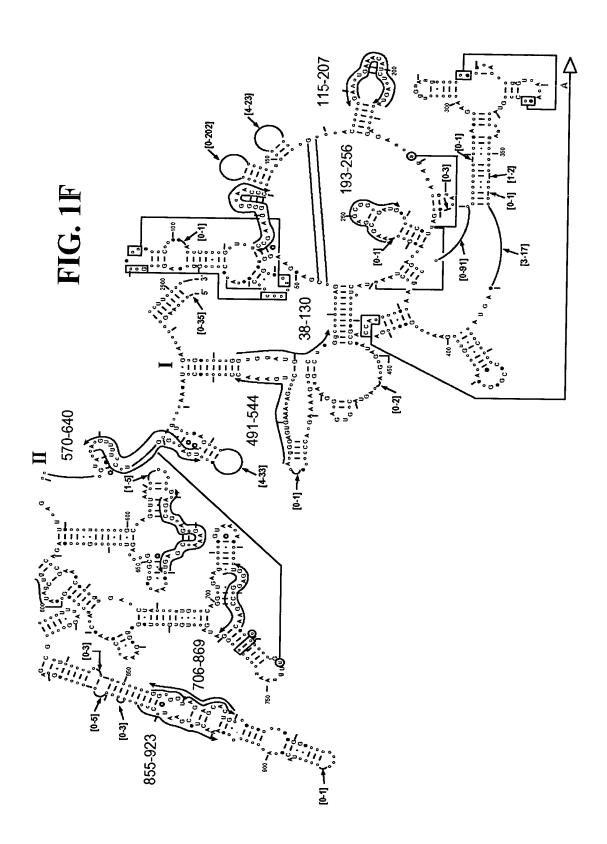
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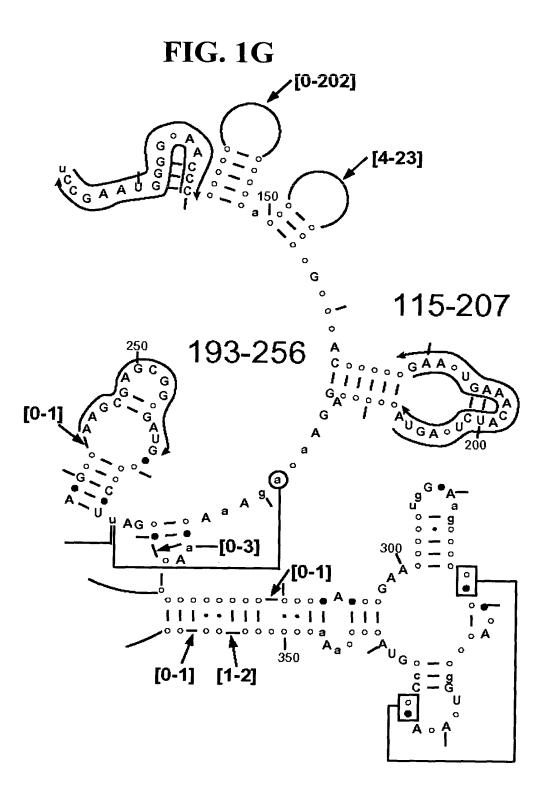


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HUMANS AND ANIMALS Inventors: David J. Ecker et al.

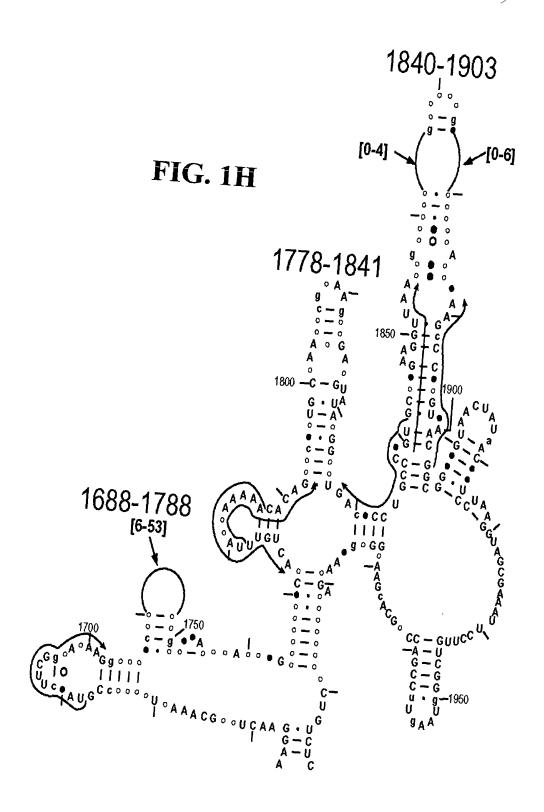
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**HUMANS AND ANIMALS** Inventors: David J. Ecker et al.

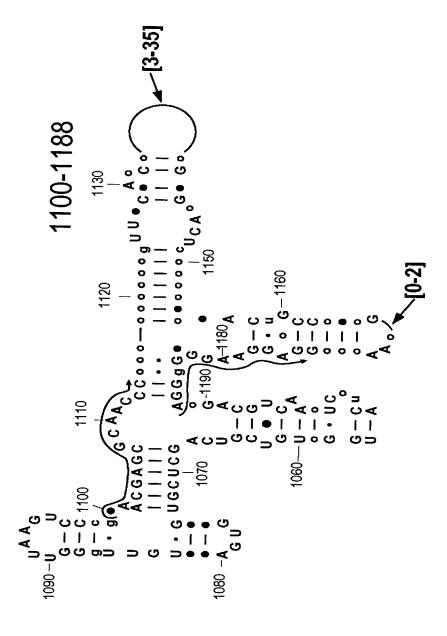
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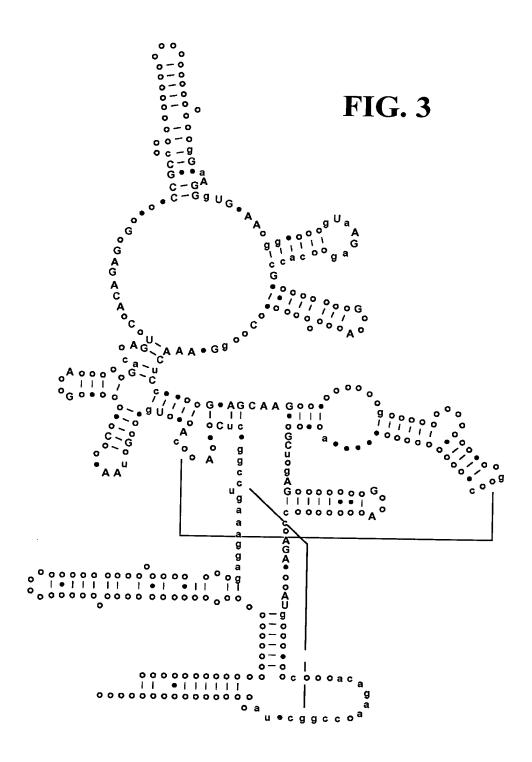




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**HUMANS AND ANIMALS** Inventors: David J. Ecker et al.

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▼ TAČGTAČGT (Watson) TACGTACGT (Watson) \*ACG\*ACG\* ~ A\*GCA\*GCA ~ TAČGTAČGT ATGCATGCA mass (C\*-C)=y mass (T\*-T)=x \* tag

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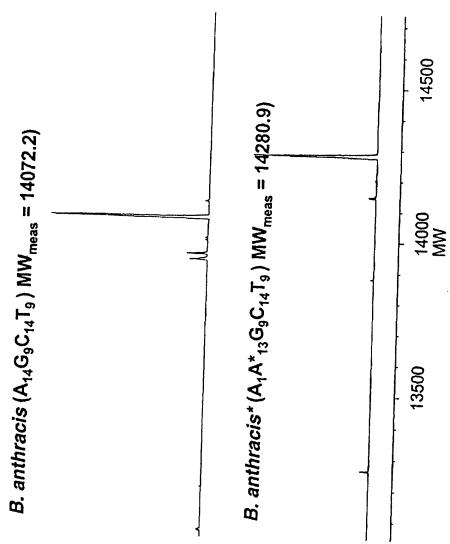
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HUMANS AND ANIMALS
Inventors: David I False

Inventors: David J. Ecker et al.

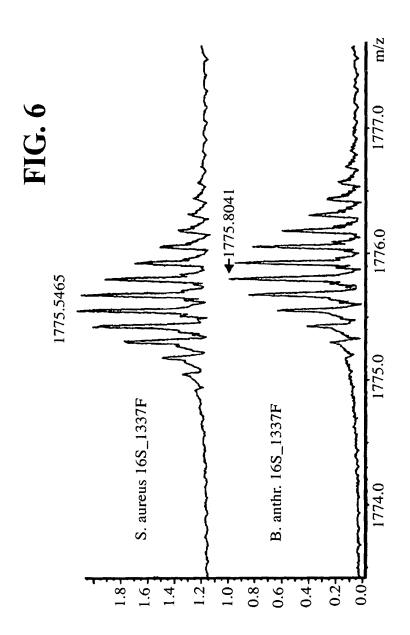
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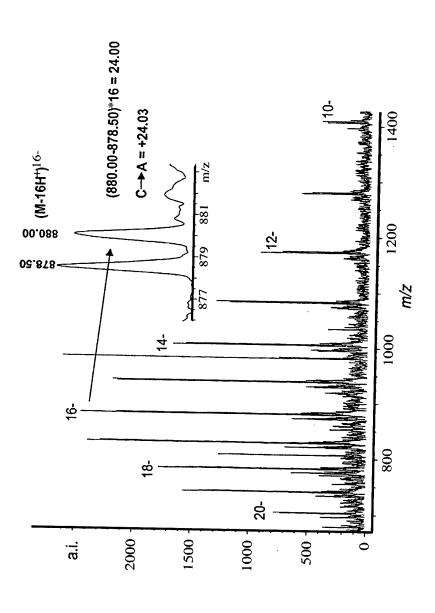
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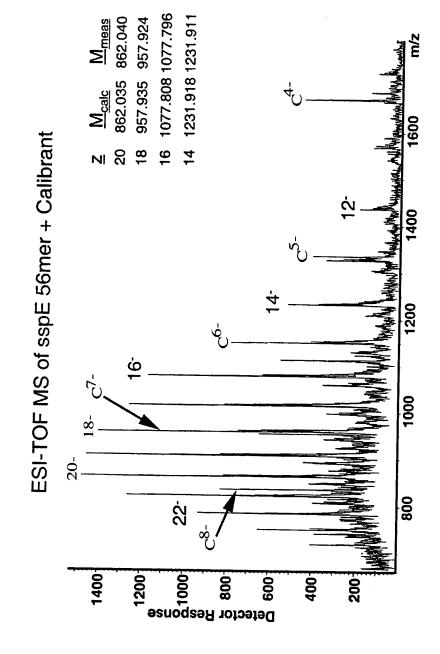
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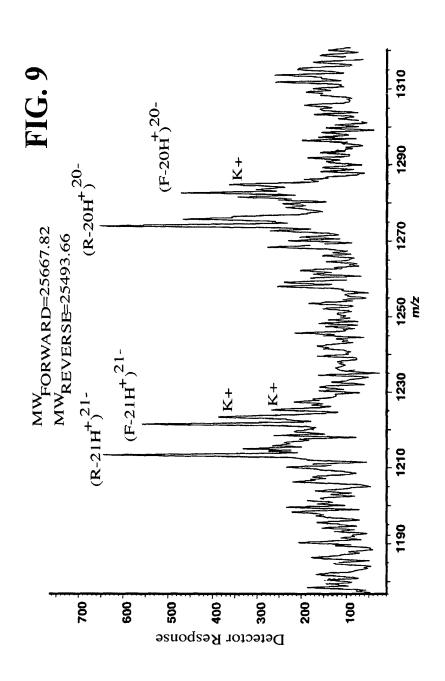


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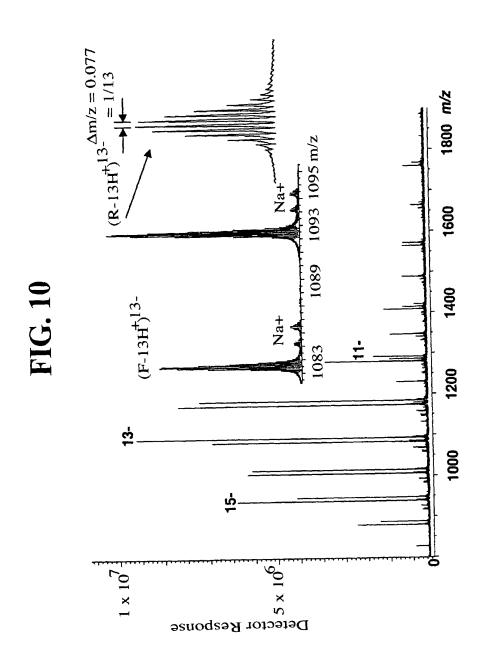


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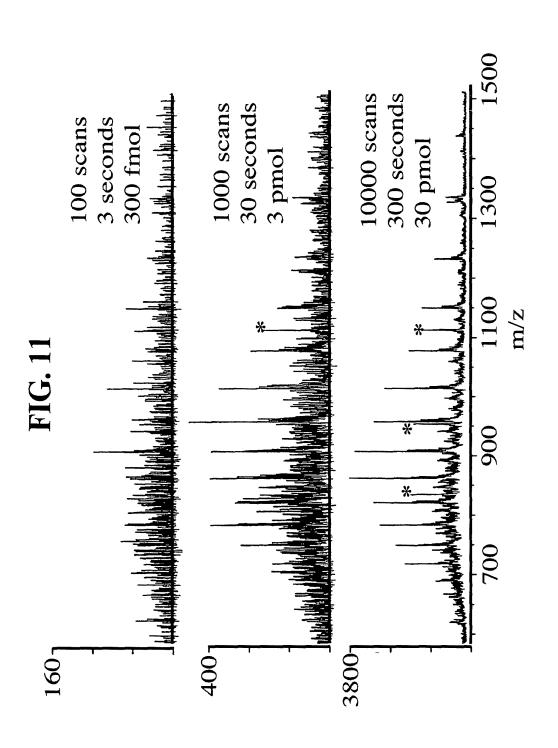
HUMANS AND ANIMALS Inventors: David J. Ecker et al.

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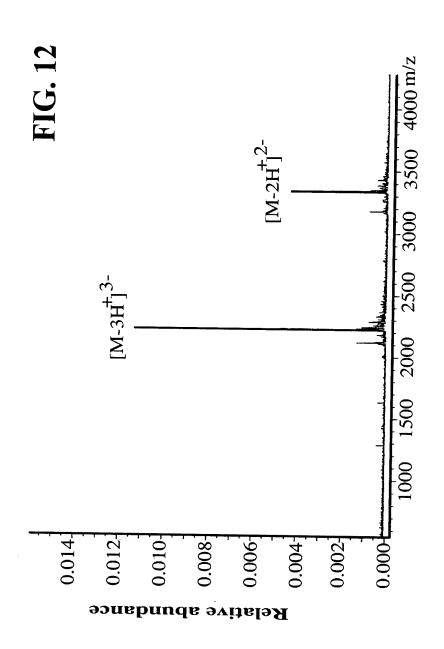
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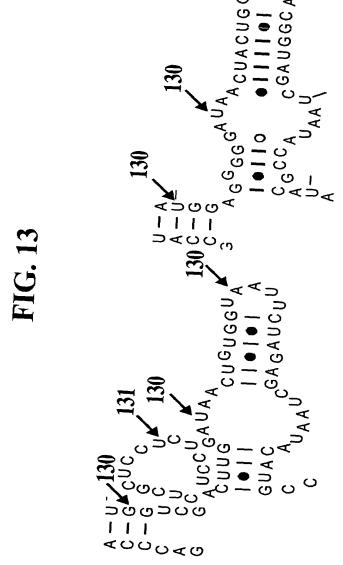
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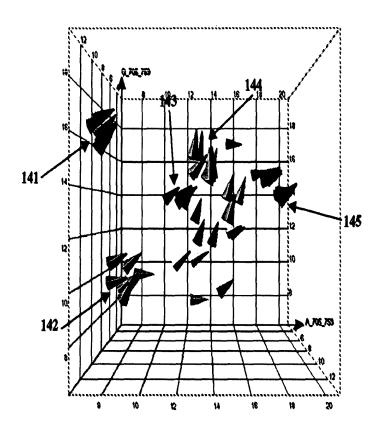
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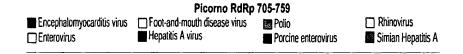


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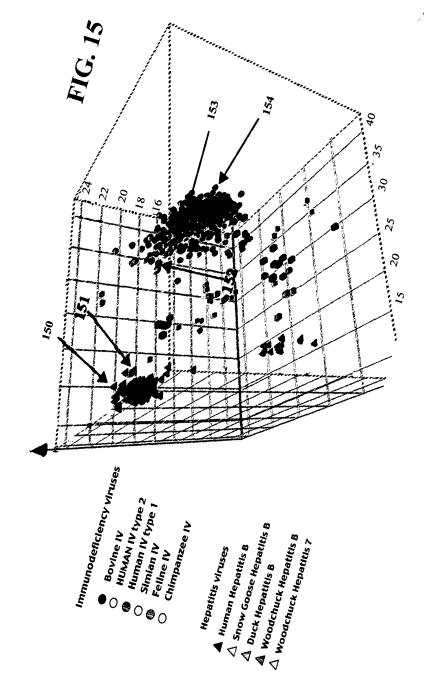
# **FIG. 14**





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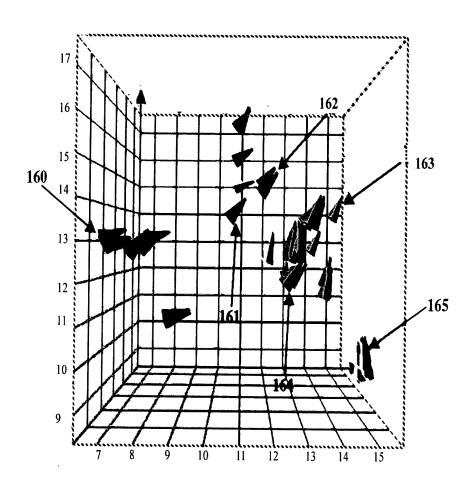


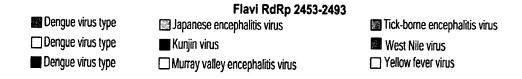
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**FIG. 16** 



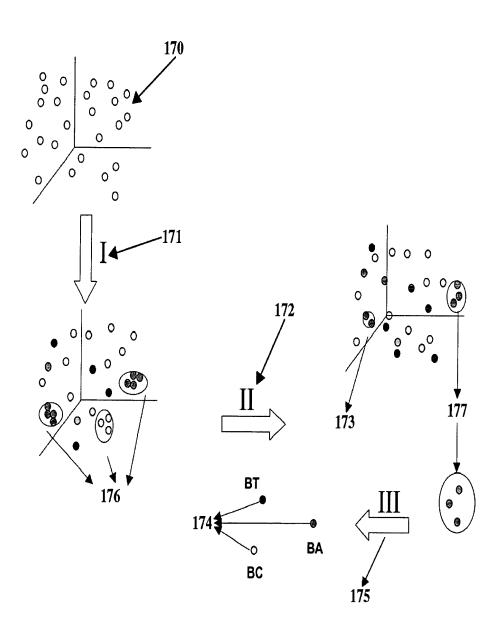


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#### **FIG. 17**



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Figure 18

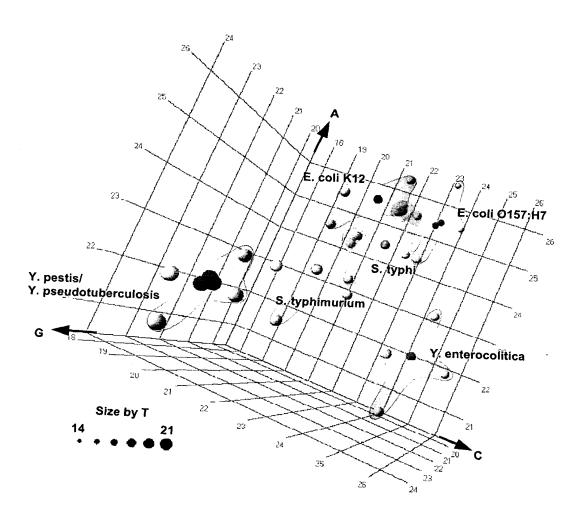
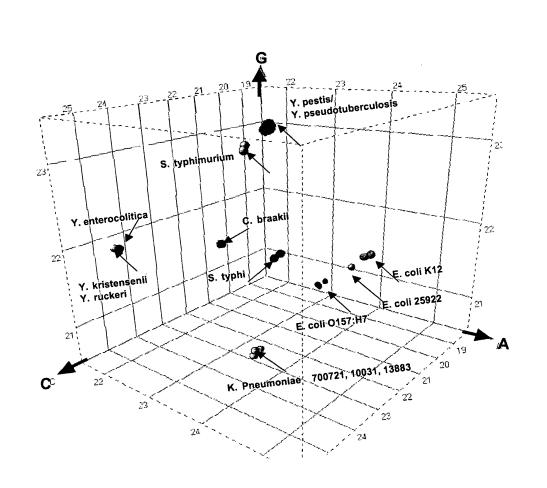


Figure 19

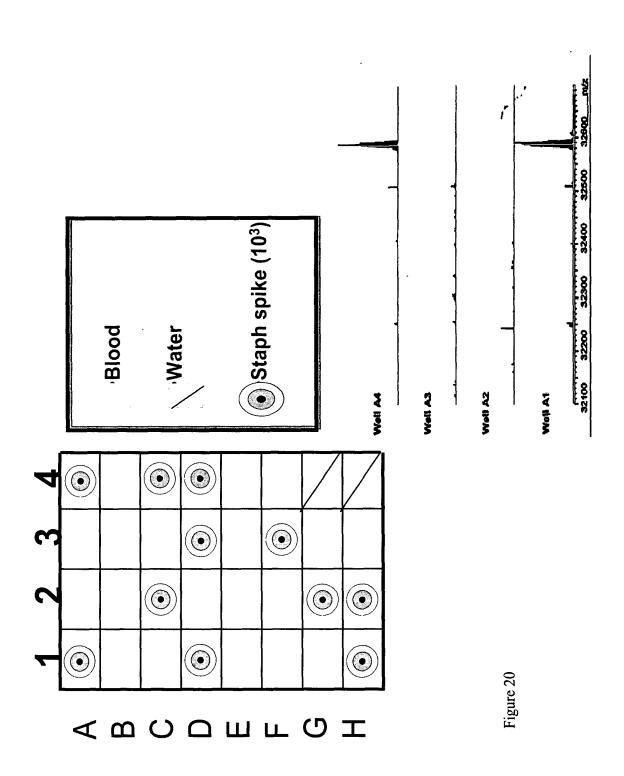


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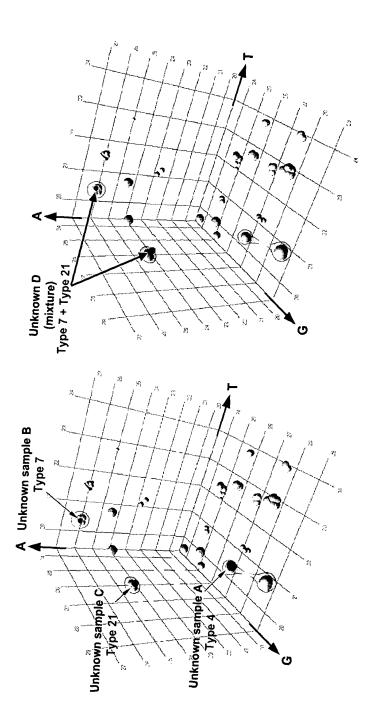
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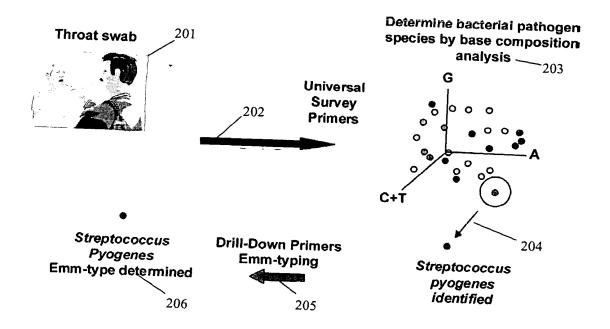
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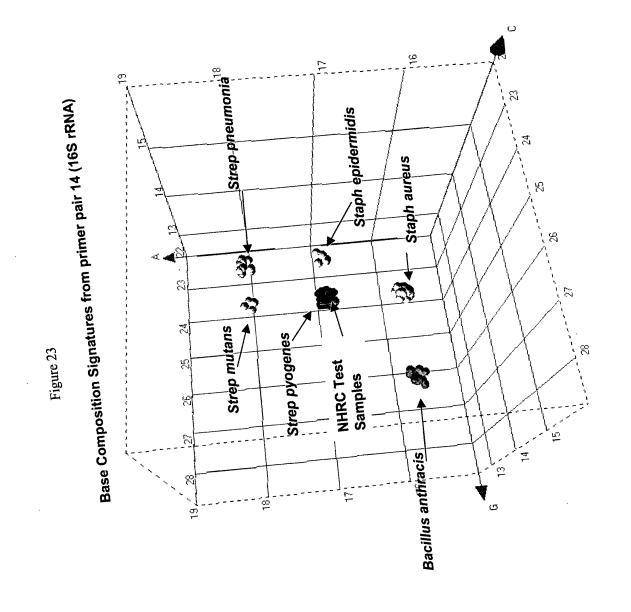
HUMANS AND ANIMALS Inventors: David J. Ecker et al.

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Figure 22

### Universal Survey/Drill-Down Process





Inventors: David J. Ecker et al.

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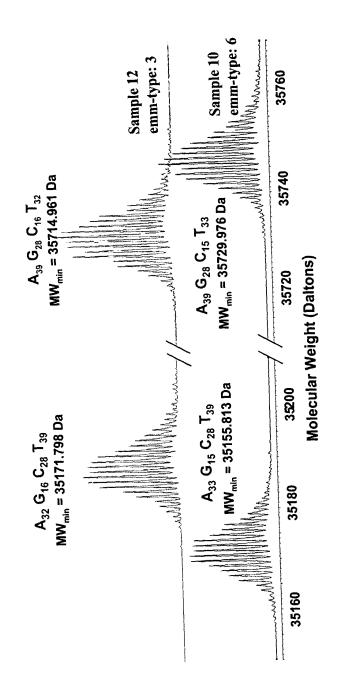


Figure 24.

Inventors: David J. Ecker et al.

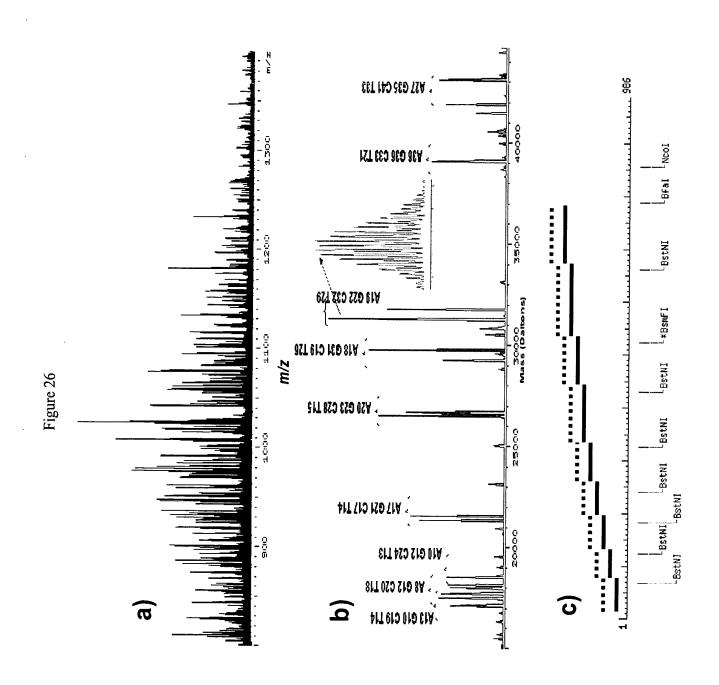
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Figure 25

Outbreak Samples	mete MLS7  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  34  35  36  37  38  38  39	- smm1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	determination           Sequencing smm           3      <	MULT A39 G25 C20 T34	A38 G27 C23 T33 A38 G27 C23 T33	A30 G36 C20 T36	Note that the service of the service	A32 G35 C17 T32	Alle Grace Course
k Samples	1 2 3 4 5 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 7 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33 A38 G27 C33 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32	Asplicate Function  Asplicate Function  Services  Asplicate Function  Asplicate Functi
k Sample	3 4 5 6 7 7 8 8 9 10 11 12 13 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32 32 33 34 35 36 37 38 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32	ASSIGNATION OF THE PROPERTY OF
k Sample	4   5   6   7   7   8   9   10   11   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   35   36   37   38   39   39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32	
k Sample	5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 5 6 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSOCIATION ASSOCI
k Sample	6 7 8 8 9 10 11 12 13 13 14 15 16 17 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSOCIATION OF THE STATE OF THE
k Sample	7 8 9 9 10 11 11 12 13 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 32 29 30 31 32 33 34 35 36 37 38 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	
k Sample	8 9 9 10 11 12 13 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 6 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSOCIATION ASSOCI
k Sample	10   11   11   12   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   35   36   37   38   38   38   38	6. 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	
k Sample	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A40 G24 C20 T34 A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31	A31 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSOCIATION AND CONTROL OF THE CONTR
k Sample	12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   31   32   33   34   35   36   37   38   39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSOCIATION AND CONTROL OF THE CONTR
k Sample	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G35 C20 T36 A30 G35 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32	
k Sample	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 38 38	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33 A38 G27 C22 T33 A38 G27 C22 T33 A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C30 T36 A30 G36 C30 T36 A30 G36 C30 T36 A30 G36 C30 T36 A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A32 G35 C17 T32 A32 G35 C17 T32 A32 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T33 A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASIGNATION OF THE PROPERTY OF
k Sample	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A32 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASSIGNATION OF THE STATE OF THE
k Sample	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 38 38	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34 A39 G25 C20 T34 A39 G25 C20 T34 A40 G24 C20 T34 A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31 A41 G28 C18 T32 A40 G29 C19 T31	A32 G35 C17 T32 A32 G35 C17 T32 A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ADD COLORS
k Sample	17	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T33 A31 G35 C17 T33 A32 G35 C17 T32 A32 G35 C17 T32	ASI COLORDON CONTROL OF THE COLOR O
k Sample	19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 38 38	6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A32 G35 C17 T32 A31 G35 C17 T32 A32 G35 C17 T32	ASI COLOR STATE ASIA S
k Sample	20 21 22 23 24 25 26 27 28 29 30 31 32 32 33 34 35 36 37 38	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A40 G24 C20 T34 A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A31 G35 C17 T32 A32 G35 C17 T32	Applications of the control of the c
k Sample	21 22 23 24 25 26 27 26 29 30 31 32 33 34 35 36 37 38 39	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A39 G25 C20 T34	A38 G27 C23 T33	A30 G36 C20 T36 A30 G35 C20 T36 A30 G36 C20 T36	A40 G29 C19 T31 A40 G29 C19 T31	A32 G35 C17 T32 A32 G35 C17 T32	A Secretary Control of the Control o
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**HUMANS AND ANIMALS** Inventors: David J. Ecker et al.

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